#### MERCHANT & GOULD P.C.

#### **United States Patent Application**

#### COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## xDSL MODEM HAVING ADAPTIVE COMPENSATING FILTER OF NULL GENERATED BY BRIDGED TAP

application(s) listed below and, in States application in the manner properties and information as defined in application and the national or PC U.S. APPLICATION NUMBER	Title 37, Code of Federal Regu T international filing date of th DATE OF FILING	lations, § 1.56(a) which a is application.  (day, month, year)	S Code, § 112, I acknowledge the duty to disc occurred between the filing date of the prior STATUS (patented, pending, abandoned)
application(s) listed below and, in States application in the manner praterial information as defined in application and the national or PC	a Title 37, Code of Federal Regu CT international filing date of th	lations, § 1.56(a) which a is application.	occurred between the filing date of the prior
application(s) listed below and, in States application in the manner p naterial information as defined in	Title 37, Code of Federal Regu	lations, § 1.56(a) which	
111. 1. 4.1. 6	sofar as the subject matter of each	ch of the claims of this ap	Inited States and PCT international application is not disclosed in the prior Unite
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
ALL FOR	EIGN APPLICATION(S), IF ANY, FI	LED BEFORE THE PRIORI	ITY APPLICATION(S)
Republic of Korea	2002-79723	13 December 20	2002
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
	REIGN APPLICATION(S), IF ANY, C		
no such applications have been such applications have been			
	ilso identified below any foreign		any foreign application(s) for patent or invent r inventor's certificate having a filing date be
hereby state that I have reviewed ny amendment referred to above		f the above-identified spec	ecification, including the claims, as amended
nd for which I solicit a United St	s application serial no. laimed in international no. tates patent.	and was amended on filed and as ame	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Federal Regulation, § 1.56(reprinted below):

# § 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by mit 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
  - (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

ark Office confidence nerewitar.			
Albrecht, John W.	Reg. No. 40,481	Lacy, Paul E.	Reg. No. 38,946
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Batzli, Brian H.	Reg. No. 32,960	Liepa, Mara E.	Reg. No. 40,066
Beard, John L.	Reg. No. 27,612	Lindquist, Timothy A.	Reg. No. 40,701
Berns, John M.	Reg. No. 43,496	Lycke, Lawrence E.	Reg. No. 38,540
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Branch, John W.	Reg. No. 41,633	McDonald, Daniel W.	Reg. No. 32,044
·	Reg. No. 40,528	McIntyre, Jr., William F.	Reg. No. P- 44,921
Bremer, Dennis C.	Reg. No. 34,130	Mueller, Douglas P.	Reg. No. 30,300
Bruess, Steven C.	Reg. No. 32,404	Pauly, Daniel M.	Reg. No. 40,123
Byrne, Linda M.	Reg. No. 25,959	Phillips, John B.	Reg. No. 37,206
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Gould, John D.	Reg. No. 18,223	Tellekson, David K.	Reg. No. 32,314
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Gresens, John J.	Reg. No. 33,112	Underhill, Albert L.	Reg. No. 27,403
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Kowalchyk, Katherine M.	106. 110. 50,010		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

Please direct all correspondence in this case to Merchant & Gould P.C. at the address indicated below:

## Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name KIM	First Given Name Dong Kwun	ı	Second Given Name
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Sign	Signature of Inventor 202:			Date:	

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name KIM	First Given Name Dong Kwun	Second Given Name
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